

PAPKOVICH, Petr Fedorovich; KOTSYUBIN, O.A.; YEKIMOV, V.V., prof.,
doktor tekhn. nauk, red.; SLEPOV, B.I., nauchnyy red.;
SHAURAK, Ye.N., red.; KONTOPOVICH, A.I., tekhn. red.;
KRYAKOVA, D.M., tekhn. red.

[Works on the structural mechanics of a ship; in four volumes]
Trudy po stroitel'noi mekhanike korablia; v 4 tomakh. Pod ob-
shchei red. V.V.Ekimova. Leningrad, Sudpromgiz. Vol.3. [Compound
flexure of rods and the flexure of plates] Slozhnyi izgib ster-
zhnei i izgib plastin. 1962. 526 p. (MIRA 15:10)
(Hulls (Naval architecture)) (Flexure)

PAPKOVICH, Petr Fedorovich; YEKIMOV, V.V., prof., doktor tekhn. nauk,
red.; SLEPOV, B.I.; KOTSYUBIN, O.A., nauchnyy red.; SHAURAK,
Ye.N., red.; ERASTOVA, N.V., tekhn.red.

[Works on the structural mechanics of a ship in four volumes]
Trudy po stroitel'noi mekhanike korablia v 4 tomakh. Pod obshchei
red. V.V. Ekimova. Leningrad, Sudpromgiz. Vol.2. [Flexure of
curvilinear frames and span covers] Izgib krivolineynykh ram i
perekrytii. 1962. 639 p. (MIRA 15:7)
(Hulls (Naval architecture))

PAPKOVICH, Petr Fedorovich, zasluzhennyy deyatel' nauki i tekhniki RSFSR, laureat Stalinskoy premii (1887-1946); KOTSYUBIN, O.A.; SHAURAK, Ye.N., red.; SLEPOV, B.I., nauchnyy red.; KONTOROVICH, A.I., tekhn.red.

[Vibration of ships] Trudy po vibratsii korablia. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1960. 782 p.

(MIRA 14:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Papkovich).
(Ships--Vibration)

PAPKOVICH, Petr Fedorovich; SLEPOV, B.I.; YEKIMOV, V.V., prof., doktor
tekhn. nauk, red.; TSYNDRYA, I.I., nauchnyy red.; SHAURAK,
Ye.N., red.; KRYAKOVA, D.M., tekhn. red.

[Transactions on the structural mechanics of ships in 4 volumes]
Trudy po stroitel'noi mekhanike korablia v 4 tomakh. Pod ob-
shchei red. V.V.Ekimova. Leningrad, Sudpromgiz. Vol.4. [Strength
of rods, span covers, and plates] Ustoichivost' sterzhei, pere-
krytii i plastin. 1963. 550 p. (MIRA 16:6)
(Shipbuilding materials--Elastic properties)
(Naval architecture)

~~SLEPOV, B.I.~~

(2)

PAPKOVICH, Petr Fedorovich; SLEPOV, B.I.; YEKIMOV, V.V., prof., doktor
tekhn. nauk, red.; TSYNDRYA, I.I., nauchnyy red.; SHAURAK,
Ye.N., red.; KRYAKOVA, D.M., tekhn. red.

[Transactions on the structural mechanics of ships in 4 volumes]
Trudy po stroitel'noi mekhanike korablia v 4 tomakh. Pod ob-
shchey red. V.V.Ekimova. Leningrad, Sudpromgiz. Vol.4. [Strength
of rods, span covers, and plates] Ustoichivost' stershei, pere-
krytii i plastin. 1963. 550 p. (MIRA 16:6)
(Shipbuilding materials—Elastic properties)
(Naval architecture)

BR

ACCESSION NR: AP4041423

S/0179/64/000/003/0144/0146

AUTHOR: Slepov, B. I. (Leningrad)

TITLE: Vibrations and stability of an elliptical shell

SOURCE: AN SSSR. Izv. Mekhanika i mashinostroyeniye, no. 3, 1964, 144-146

TOPIC TAGS: shell, elliptical shell, anisotropic shell, shell stability, shell flexural vibration, critical pressure calculation, frequency square calculation, Bubnov Galerkin method

ABSTRACT: The article presents approximate calculations of the frequency of free flexural vibrations for an elliptical anisotropic shell and calculations of the stability of such shells when acted on by normal and uniformly distributed pressure. The problem is reduced to integration of the equation

$$\begin{aligned} \nabla_1^4 \left\{ \rho \left[\nabla_2^4 w - q \left(\frac{\xi (\xi_0 - \xi)}{2} \frac{\partial^2 w}{\partial \xi^2} \frac{d^2 \rho}{d\eta^2} + (2\xi - \xi_0) \frac{\partial^2 w}{\partial \xi \partial \eta} \frac{d\rho}{d\eta} - \right. \right. \right. \\ \left. \left. - \frac{\pi ab}{s_0 r_0} \frac{\partial^2 w}{\partial \xi^2} - \rho \frac{\partial^2 w}{\partial \eta^2} \right) + \frac{\rho_{11} s^4}{D_1} \frac{\partial^2 w}{\partial \xi^2} \right] + \frac{4b_1^4}{\rho} \frac{\partial^4 w}{\partial \xi^4} = 0 \right. \\ \left. \nabla_1^4 = E_1 \frac{\partial^4}{\partial x^4} + E_4 \frac{\partial^4}{\partial x^2 \partial s^2} + E_3 \frac{\partial^4}{\partial s^4}, \quad E_4 = \frac{E_1 E_2}{G} - E_{11} \mu_4 - E_{41} \mu_1 \right. \\ \left. \rho = \frac{r}{r_0}, \quad \xi = \frac{x}{r_0}, \quad \eta = \frac{s}{r_0}, \quad \xi_0 = \frac{L}{r_0} \right. \end{aligned} \quad (1)$$

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ACCESSION NR: AT4039442

S/2879/64/000/000/0894/0903

AUTHOR: Slepov, B. I. (Leningrad)

TITLE: Vibrations and stability of anisotropic and three-layer cylindrical shells of arbitrary cross section

SOURCE: Vsesoyuznaya konferentsiya po teorii obolochek i plastin. 4th, Yerevan, 1962. Teoriya obolochek i plastin (Theory of plates and films); trudy* konferentsii, 1964, 894-903

TOPIC TAGS: shell, anisotropic shell, elliptical cylinder, hydrostatic pressure, cylindrical shell, sandwich shell, three layer shell, shell stability, shell vibration

ABSTRACT: All studies to date on the vibrations and stability of single-layer anisotropic and three-layer cylindrical shells consider only shells of circular cross section. The question of the vibrations and stability of shells having the form of a cylinder of arbitrary cross section has not been investigated, despite the desirability of the development of a methodology for such computations. An approximate solution of this problem can be achieved with relative ease on the basis of the determination of the initial stress state of such shells by means of the momentless theory. In this report, the author uses the Bubnov-Galerkin approach to the problem of the free bending oscillations and stability of a single-layer anisotropic shell, having the form of an elliptical cylinder freely supported at the end sections and

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ACCESSION NR: AT4039442

under the load of a uniformly distributed hydrostatic pressure. An analogous problem is also considered for a three-layer elliptical shell with rigid incompressible filler. The solution of both problems is presented in a linear formulation and the approximate solutions derived have been reduced to relatively simple calculation formulas for the frequency of the bending oscillations and the critical pressure. There is no particular need to obtain the so-called lower critical pressure, since, in the given problem, this differs from the upper, as obtained in the linear formulation, by a maximum of $\sim 30\%$. In the first part of the article (single-layer anisotropic elliptical shell), the point of departure is a system of equations for the movement of a cylindrical shell of arbitrary cross section in which the tangential inertial forces have been disregarded and only the forces of inertia from the normal bending are considered. The initial stress of the shell is assumed to be without moment, while the corresponding forces are defined according to the expressions derived in the work of V. V. Novozhilov. (V. V. Novozhilov. *Teoriya tonkikh obolochek*. Sudpromgiz, 1951). In the second part of the paper (three-layer elliptical shell with rigid incompressible filler), situation, results for the case of a light filler can be derived from the results obtained for a rigid filler by disregarding the tensile and flexional strength factors of the filler. The particular problem considered concerns a rigid filler whose transverse strain may be disregarded. The problem is solved

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ACCESSION NR: AT4039442

in a linear formulation using the theory of sloping shells. The conventional suppositions are made: (a) the material of the lifting layers is homogeneous and isotropic; (b) the arrangement of the lifting layers is symmetrical with respect to the center surface of the shell; (c) the Poisson coefficients of the lifting layers and the filler are identical; (d) for the lifting layers the Kirchhoff-Lyav hypotheses are applicable; (e) the straight-line hypothesis is used for the filler. Orig. art. has: 1 table and 20 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 14May64

ENCL: 00

SUB CODE: AS

NO REF SOV: 005

OTHER: 000

Card 3/3

SLEPOV, I.A.

An important method of inculcating interest in the practical
application aspects of railroad schools. Zhel.dor.transp. 37
no.10:65-67 0 '55. (MIRA 9:1)

(Railroads--Models)

SLEPOV, I.

Raising the cultural and technical level of workers as an important
source for the growth of labor productivity. Sov.profsoiuzy 4
no.2:16-23 F '56. (MLRA 9:5)

(Technical education)

SLEPOV, I.A.

KANTORER, S.Ye., kand.tekhn.nauk; KHACHATR'YANTS, I.T., kand.tekhn.nauk;
KUTSENOVA, A.A., kand.ekonom.nauk, red.; MITIN, S.A., red.;
SLEPOV, I.A., red.; USPENSKIY, V.V., red.; SHASS, M.Ye., red.;
EL'KINA, E.M., tekhn.red.

[Over-all mechanization and labor productivity in the construction
industry] Kompleksnaya mekhanizatsiya i proizvoditel'nost' truda
v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit.i arkhit.,
1957. 92 p. (MIRA 11:1)

(Building machinery)

SLEPOV, I.

Permanent construction workers are a very important factor in industrial building methods. Sots. trud no.4:66-73 Ap '57. (MLRA 10:6)
(Building trades)

SLEPOV, Ivan Aleksandrovich [Sliefov, I.O.], kand. ekon. nauk,; TROYANCHUK,
V.P., red.; LISENKO, F.K., red.

[Housing construction is the program task of the party] Zhytlove
budivnytstvo-programne zavdannia partii. Kyiv, 1958. 29 p.
(MIRA 11:10)

(Housing)
(Construction industry-Costs)

PHASE I BOOK EXPLOITATION

1003

Slepov, Ivan Aleksandrovich

Industrializatsiya stroitel'stva i yeye narodnokhozyaystvennoye znachenie (Industrialization of Construction and Its Significance For the National Economy)
Moscow, Gospolitizdat, 1958. 262 p. 20,000 copies printed.

Ed.: Barskov, I., and Novozhilov, K.; Tech. Ed.: Troyanovskaya, N.

PURPOSE: This book is intended for construction engineers and technical personnel in the construction industry.

COVERAGE: The author discusses the adoption of industrial methods in the construction industry of the Soviet Union, and lists various conditions which are necessary prerequisites, such as developing a large scale building-industry, the overall mechanization of operations, and the enlarging and specializing of present construction organizations. The author states that it will be necessary to improve the qualifications of the personnel and increase the role played by engineers and technical personnel in the construction industry. No personalities are mentioned. There are no references.

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Industrialization of Construction (Cont.) 1003

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2. Increasing the role of engineering and technical personnel in connection with the industrialization of construction	155
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AVAILABLE: Library of Congress

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BK/sfm
1-12-59

SLEPOV, I. (Kiyev)

Industrialization of construction at its present stage. Vop.
ekon. no.1:57-62 Ja '59. (MIRA 12:1)
(Construction industry)

SLEPOV, I.

Hidden potentialities for the increase of labor productivity in housing construction. Sots. trud 5 no.11:17-23 N '60.

(MIRA 14:1)

(Kiev—Construction industry—Labor productivity)

SLEPOV, Ivan Aleksandrovich; BOBYLEVA, L.V., red.; BARSKOV,
I.M., ~~spets.~~ red.

[Technical progress and the organization of construction] Tekhnicheskii progress i organizatsiia stroitel'nogo proizvodstva. Moskva, Ekonomika, 1965. 143 p.
(MIRA 18:5)

SLEPOV, L.

The Leninist rules of party life and the principles of party
leadership. Komm.Vooruzh.Sil 1 no.2:51-58 Ja '61. (MIRA 14:8)
(Communist Party of the Soviet Union)

L 27351-66 EWT(m)/T/ETC(m)-6 WW/DJ
 ACC NR: AP6007712 SOURCE CODE: UR/0413/66/000/003/0105/0106
 AUTHORS: Kholmkvist, V. A.; Slepov, L. M.; Baranov, Yu. N.; Pekov, A. V.; Tomilin, V. S. 37
 B
 ORG: none
 TITLE: Ball bearing, Class 47, No. 178618
 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 105-106
 TOPIC TAGS: ball bearing, antifriction bearing 7
 ABSTRACT: This Author Certificate presents a ball bearing for axial motion, consisting of a body with a closed channel which is filled with balls. To increase accuracy and reliability of the connection, the bearing body is constructed of several sections connected by a fixture. The sections fit into openings in the latter and interact with its bearing surfaces through inserts (see Fig. 1). To prevent the balls from falling out when the shaft is removed, an additional feature provides each section with two limiting plates which have inclined edges directed toward the balls. 2
 UDC: 621.822.76
 62-229.314
 Card 1/2

L 27351-66

ACC NR: AP6007712

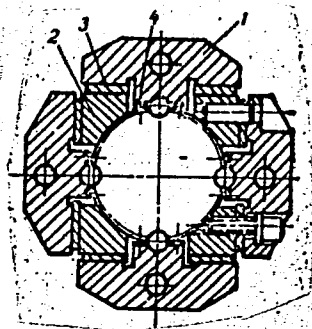


Fig. 1. 1 - section; 2 - fixture;
3 - inserts; 4 - limiting plates.

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 14Sep64

Card 2/2

PB

SLEPOV, M.I. (Kazan')

Pregnancy in the rudimentary horn of the uterus. Kaz. med. zhur.
no.6:88 N-D '60. (MIRA 13:12)

(PREGNANCY, EXTRAUTERINE)

SLEPOV, M.I.

Recurrent extra-uterine pregnancy in the stump of a resected tube. Kaz. med. zhur. no.5:67 S.O '61. (MIRA 15:3)

1. Ginekologicheskoye otdeleniye (zav. -- M.I. Slepov) 2-go gorodskogo lechebno-profilaktricheskogo ob"yedineniya Kazani (glavnyy vrach -- N.V. Potapova).
(PREGNANCY, EXTRA-UTERINE)

SLEPOV, M.I.

Repeated extra-uterine pregnancy. Kaz. med. zhur. no.1:63-64
Ja-F '62. (MIRA 15:3)

1. Ginekologicheskoye otdeleniye (zav. - M.I. Slepov)
- 2-oy gorodskoy bol'nitsy Kazani (glavnyy vrach - N.S. Utkina).
(PREGNANCY, EXTRA-UTERINE)

SLEPOV, M.I.

Ovarian pregnancy. Kaz. Med. Zhur. no.6:63 '62. (MIRA 17:5)

1. Ginekologicheskoye otdeleniye 2-y gorodskoy bol'nitsy
Kazani (zav. otdeleniyem - M.I. Slepov, glavnyy vrach - N.S.
Utkina).

SLEPOV, M.I.

Ectopic pregnancy according to data of the gynecological department of the second Kazan Municipal Hospital. Kaz.med. zhur. no.3:61-62 My-Je'63. (MIRA 16:9)

1. Ginekologicheskoye otdeleniye (zav. - M.I.Slepov)
2-y Kazanskoy gorodskoy bol'nitsy (glavnyy vrach - M.I. Mukhametova)
(PREGNANCY, EXTRAUTERINE)

SLEPOV, M.I.,

Prevention of perforation of the uterus during its curettage.
Kaz. med. zhur. no.5:58-60 S-0'63 (MIRA 16:12)

1. 2-ya kafedra akusherstva i ginekologii (zav. - prof. I.V. Danilov) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni V.I.Lenina i 2-ya Kazanskaya gorodskaya bol'nitsa (glavnyy vrach - M. Sh. Mukhametova).

СЛЕПОВ П., полковник

Важно влияние should be effective. Комм. Vooruzh. Sil
4. no. 12:39-42 J1 '60. (MIRA 17:7)

SLEPOV, V.

Our support in the village. Okhr. truda i sots. strakh. 5 no.9:
12-13 S '62. (MIRA 16:5)

1. Predsedatel' Vinnitskogo oblastnogo soveta professional'nykh
soyuzov.

(Farm mechanization--Safety measures)

L 15023-65 EWT(m)/EPF(c)/EPR/EWP(j)/EWP(l) Pc-l/Pi-l/Pr-l/Ps-l RPL/AEDC(a)/
 ASD(a)-5/AFMDC/AFETR/RAEM(i)/ESD(dp) RM/WW/JW
 S/3115/64/000/021/0195/0206
 ACCESSION NR: AT4047298

AUTHOR: Burovoy, I. A., Slepov, V. I.

TITLE: Peculiarities of one class of apparatus for thermochemical heterogeneous processes as an object of automatic control

SOURCE: Moscow. Gosudarstvennyy institut tsvetnykh metallov. Sbornik nauchnykh trudov, no. 21, 1964. Matematicheskiye modeli tekhnologicheskikh protsessov i razrabotka sistem avtomaticheskogo regulirovaniya s peremennoy strukturoy (Mathematical models of technological processes and development of variable structure feedback systems), 195-206

TOPIC TAGS: automatic controls, thermochemical process, heterogeneous process, mathematical model

ABSTRACT: The authors propose a general differential equation, as well as differential equations for two particular cases, which reflect the dynamic peculiarities of the different technological modes or conditions of one class of apparatus for thermochemical heterogeneous processes, considered as objects of automatic control. An understanding of this article requires some degree of familiarity with the preceding articles of this series (pp. 84, 142, 166), in which

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ACCESSION NR: AT4047298

the structural arrangement and describing system of differential equations are given for the mathematical models of a large number of heterogeneous processes in the chemical, metallurgical and other branches of industry. In the present article, for the purpose of investigating the properties of this class of technological apparatus as the object of automatic control, the system of equations developed in the preceding papers is reduced to a single equation. Without detracting from the generality of the study, the authors consider the regulating effect to be the change in the solid phase flow reaching the apparatus. It is shown that, for a number of technological conditions or modes, the class of objects considered in the article is, in effect, a non-linear element which does not permit linearization. Orig. art. has: 2 figures and 28 formulae.

ASSOCIATION: Gosudarstvennyy institut tsvetnykh metallov, Moscow (State Institute of Non-Ferrous Metals)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 005

OTHER: 000

Card 2/2

BUROVY, I.A.; BRYUKVIN, V.A.; SLEFOV, V.I.; MOROZOVA, M.A.

Dynamic properties of a furnace for roasting zinc concentrates
in a fluidized bed. Sbor. nauch. trud. Gintsvetmeta no.21:
207-218 '64. (MIRA 18:8)

ALEKSANDROV, V.N.; SLEPOV, Ye.M.

Occurrence of moose in the Northern Caucasus. Zool. zhur. 44
no.6:952 '65. (MIRA 18:10)

1. Kavkazskiy gosudarstvennyy zapovednik i Krasnodarskaya gosudarstven-
naya okhotnich'ya inspektsiya.

ROZANOV, L.N.; SLIMPOV, Yu.N.

Studying subsurface structures in eastern regions of the
Russian Platform. Geol.nefti i gaza 4 no.6:18-22
Je '60. (MIRA 13:7)

1. Ufimekiy neftyanoy nauchno-issledovatel'skiy institut.
(Russian Platform--Geology, Structural)

NALIVKIN, V.D.; KULIKOV, F.S.; MOROZOV, S.G.; SLEPOV, Yu.N.

New big graben in the east of the Volga-Ural region. Geol.
nefti i gaza 8 no.3:14-17 Mr '64.

(MIRA 17:6)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.

KULIKOV, F.S.; MOROZOV, S.G.; SLEPOV, Yu.N.

Geologic history of ancient structures in the eastern boundary of the Russian Platform in connection with oil and gas prospecting in Bavl'y sediments. Neftegaz. geol. i geofiz. no.11:10-15 '65.
(MIRA 18:12)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.

STAROSEL'SKAYA, K.B., assistant; GRITSEVSKAYA, Ye.V., ordinator;
SLEPOVA, R.I. (Kazan')

Comparative evaluation of a strain for the tuberculosis bacilli
in a flotation layer of pleural exudate after Ziehl-Neelsen and
Ozol. Kaz. med. zhur. no.1:76-77 Ja-F '62. (MIRA 15:3)
(MYCOBACTERIUM TUBERCULOSIS)
(STAINS AND STAINING (MICROSCOPY))

VINNIKOV, P.L.; SLEPOVA, R.I.; SATAYEV, I.F.

Inhalation of calcium chloride aerosols in the compound treatment
of pulmonary tuberculosis. Kaz.med.zhur. no.4:7-9 J1-Ag '62.
(MIRA 15:8)

1. Kafedra ftiziatrii (zav. - dotsent P.L.Vinnikov) Kazanskogo
gosudarstvennogo instituta dlya usovershenstvovaniya vrachey
imeni Lenina na baze gosspitalya invalidov Otechestvennoy voyny
(nachal'nik - N.S.Valeyev) i protivotuberkuleznyy sanatoriy "Tar-
lovka" (glavnyy vrach - T.N.Ayzatullina).
(TUBERCULOSIS) (AEROSOL THERAPY) (LIME, CHLORIDE OF)

SLEPOVA, R.I.

Subcutaneous Koch tuberculin test in the differential diagnosis of tuberculosis. Kaz.med. zhur. no.2:8-12 Mr-Ap'63
(MIRA 16:11)

1. Kafedra ftiziatrit (zav. - dotsent P.L.Vinnikov) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina na baze tuberkuleznogo gosпитalya invalidov Otechestvennoy voyny (nachal'nik - N.S.Valeyev) i Kazanskiy gorodskoy protivotuberkuleznyy dispanser (glavnyy vrach - M.S.Samarin).

*

BRUDNAYA, R.B.; GLEBOVA, R.I.

Detection of Mycobacterium tuberculosis in the sputum in relation to the form of the tuberculous process and the quantity of antibiotics taken. Nauch. trudy Kaz. gos. med. inst. 14:377-378 '64. (MIRA 18:9)

1. Kafedra mikrobiologii (zav. - dotsent Z.Kh. Karimova)
Kazanskogo meditsinskogo instituta.

SLEPOVA, R.I.

Criterion of the abacillary state following effective antibacterial therapy. Probl. tub. 42 no.12:55-58 '64.

(MIRA 18:8)

1. Kazanskiy protivotuberkuleznyy gosptal' dlya invalidov Otechestvennoy voyny (ispolnyayushchiy obyazannosti glavnogo vracha A.Kh.Sayfi).

SLEPOVA, V.

RUMANIA/Chemical Technology. Chemical Products and Their
Applications. Cellulose and Cellulose Products.
Paper.

K-5

Abs Jour: Ref Zhur-Khimiya, 1958, No 1, 3290.

Author : Slepova, V.

Inst

Title : The Effect of Fillers Upon the Properties of Paper.

Orig Pub: Ind. lemn. celul. si hirt., 1956, 5, No 3, 142-144.

Abstract: The Role of fillers (F) in the production of paper (P) and their effect upon the properties of P are considered. In certain grades of P no F are allowed, as the P must have ash content. Depending upon their ash content, P's are divided into four groups: 1) condensed P, electrical insulation P, filter P (1%), 2) cigarette P, asphaltting P (5%), 3) printing P and stationery (15%) and 4) mapping paper,

Card : 1/2

TARASOVA, T.M.; SLEPOVA, V.A.

Altitude distribution of the radiation intensity of the main
emission lines of the night sky. Geomag. i aer. 4 no.2:321-327
Mr-Ap '64. (MIRA 17:4)

1. Institut prikladnoy geofiziki AN SSSR.

SLEPOVA, E. Z.

USSR/Miscellaneous

Card 1/1 : Pub. 12 - 9/15

Authors : Lukin, N. P.; Slepova, E. Z.; Gurvich, I. B.; Pshenishnov, A. V.; and
Chumakova, N. M.

Title : Improvement in the finishing of engine parts

Periodical : Avt. trakt. prom. 2, 28-29, Feb 1954

Abstract : The importance of qualitative preparation of friction surfaces of auto-engine parts, is explained. The methods and means employed by the Molotov Automobile Plant in Gorkiy for improving the quality and service life of parts for the engines Gaz-51, Gaz-63, M-20 and ZIM, are described.

Institution : The V. M. Molotov Automobile Plant, Gorkiy

Submitted :

SLEPOVA, YE. Z.

137-58-2-2908

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 100 (USSR)

AUTHORS: Sil'tsova, M. A., Slepova, Ye. Z.

TITLE: New Die Lubricants for the Deep Drawing and Superdeep Drawing of Sheet-steel Parts (Novyye shtampovyye smazki dlya glubokoy i osobo glubokoy vytyazhki detaley iz listovoy stali)

PERIODICAL: Tekhnol. avtomobilstroyeniya, 1957, Nr 3, pp 37-45

ABSTRACT: Consideration is given to the advantages and disadvantages of the new-type lubricants being used in deep drawing, to the technical and economic aspects of their introduction into industry, and to the technology of manufacturing lubricants based on calcium soap and gypsum. Results of shop testing of the new lubricants are included.

Ye. L.
1. Dies=~~Lubrication~~=Test results 2. Lubricants=~~Applications~~

Card 1/1

SLEPOVICH, F. I.

15-57-7-9711
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
p 143 (USSR)

AUTHORS: Bel'kevich, P. I., Yanchenko, N. I., Slepovich, F. I.

TITLE: Regeneration of Waste Oils by Bleaching Clays
(Regeneratsiya otbelivayushchimi glinami otrabotannykh
masel--in Belorussian)

PERIODICAL: Izv. AN BSSR, ser. fiz.-tekhn. n., 1956, Nr 2, pp 125-
139

ABSTRACT: Clays of deposits at Levaya Ruba (Vitebskaya Oblast),
Malinovka and Vidibor (Brestskaya Oblast), Shelomy
(Mogilevskaya Oblast), and Yel'niki (Gomel'skaya Oblast)
are used for purifying transformer oil by the contact
method. Clays used for this purpose have an acidity
index from 0.06 to 0.35. The amount of clay required
in the process is 5 to 15 percent of the weight of the
oil. Considerably used transformer oils with an

Card 1/2

SLEPOVICH, F.I., inzh.; PROKHOROVA, K.P., inzh.

Reconditioning waste FSKh-26 enamel and ground coat no.138 at
the Minsk Tractor Plant. Mash.Bel. no.4:162-163 '57. (MIRA 11:9)
(Paint)

SLEPOVICH, S.Sh., inzh.

Using the PT binder at the Minsk Tractor Plant. Mash.Bel.
no.5:99-102 '58. (MIRA 12:11)
(Minsk--Founding)

SLEPOWRONSKI, Jan, mgr inz.

Water and sewage problems in the metallurgical industry. Chemik
15 no.4:131-134 Ap '62.

SLEPOV, Yu. Sh.

✓ 1495. Slepov, Yu. Sh., Testing of efficiency of dredge pipes in field conditions (in Russian), *Gidrotekh. i Melior.* 7, 7, 29-32, July 1955.

A short nozzle with an angle of $13^{\circ}24'$ is attached to an outlet; head is observed in a piezometric tube. Correction is necessary for the specific weight of pulp. S. Kolupaila, USA

SLEPOY, Yu. Sh. Cand Tech Sci -- (diss) " Study of low-pressure hydraulic transport
systems of ~~the~~ suction dredges ^{on the} Amudar'ya main irrigation canals." Tashkent, 1956.
19 pp 22 cm. (Min of Higher Education USSR. Tashk^{nt} Inst of Engineers of Irrigation
and Mechanization of Agriculture TIIIMSKH), 120 copies
(KL, 7-57, 107)

43

SOV/124-58-10-11317

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 89 (USSR)

AUTHOR: L Slepoy, Yu. Sh.

TITLE: . Pressure Characteristics of a Hydraulic Dredge During Pulp-pumping Operations (O napornoy kharakteristike zemleososa pri rabote na gidrosmesi)

PERIODICAL: Tr. Sredneaz. n.-i. in-ta irrigatsii, 1957, Nr 81, pp 67-71

ABSTRACT: A method is proposed whereby pressure characteristic of a suction dredge employed for pumping of pulp may be derived by means of converting analogous characteristics obtained in tests involving the pumping of water. Preparatory to the conversion, the volumetric weight of the pulp and maximum permissible pumping elevation, determined from conditions of cavitationfree operation, must be expressed as functions of the volumetric discharge rate of material delivered. The converted characteristics show the pressure as a function of the amount of substance delivered under conditions of fluctuating volumetric weight of the pulp and, if plotted, are seen to vary more steeply than the characteristics obtained during pumping of water alone.

Card 1/1

M.A. Peshkin

SLEPP, S.; DVOYAKOVSKIY, A.

Determining the requirements for means of transportation in hauling
agricultural loads. Tekh.v sel'khoz. 21 no.8:72-73 Ag '61.
(MIRA 14:7)

1. Melitopol'skiy institut mekhanizatsii sel'skogo khozyaystva.
(Transportation, Automotive)

SLEPTSOV A.

27-8-24/32

SUBJECT: USSR/Correspondence Schools

AUTHOR: Sleptsov, A., in charge of the Correspondence Section of the Rubezhanskiy Industrial Technical School.

TITLE: The First Group of Graduates (Pervyy Vypusk)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, Aug 1957, #8, p 32, (USSR)

ABSTRACT: A short notice to the effect that almost all of the first graduates of the Rubezhanskoye Industrial-Technical School are specialist mining technicians who were trained thru correspondence courses.

Nearly all of them are foremen-instructors at the Labor Reserve Schools of the Voroshilovgrad Oblast'.

INSTITUTION: Rubezhanskiy Industrial'nyy Tekhnikum (Voroshilovgradskaya Oblast') Rubezhanskiy Industrial-Technical School (Voroshilovgrad Oblast').

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 1/1

SLEPTSOV, A., prorab po mekhanizatsii

Ripper for rocky and frozen soils. Na stroi. Ros. no.7:7 J1 '61.
(MIRA 14:8)

1. Stroitel'stvo aglokombinata v Kochkanare.
(Excavating machinery)

SLEPTSCV, h.h.h.

Use of aluminum in bridge construction. Trudy TASHIIT.no.18:
68-71 '61. (MIRA 18:3)

1. SLEPTSOV, A. P.
2. USSR (600)
4. Volovik, Arkadii Borisovich
7. Heart disease in children. A. B. Volovik. Reviewed by A. P. Sleptsov.
Vop. pediat. 21, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

SLEPTSOV, A.P., kandidat meditsinskikh nauk

Problems in present-day diagnosis and pathogenesis of rheumatic fever;
review. A.P. Sleptsov. Vop. okh. mat. i det. 1 no. 5:8-15 S-0 '56.

(MLFA 9:11)

1. Iz kliniki detskikh bolezney (nach. - deystvitel'nyy chlen Akademii
meditsinskikh nauk SSSR zasluzhennyy deyatel' nauki prof. M.S. Maslov)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova, Leningrad
(RHEUMATIC FEVER)

SLEPTSOV, A.P.

"Diseases of the respiratory organs in children" by IU.F. Dombrovskaia.
Reviewed by A P. Sleptsov. *Pediatrics* 36 no.9:77-78 D'58
(MIRA 11:11)

(RESPIRATORY ORGANS--DISEASES)
(CHILDREN--DISEASES)

SLEPTSOV, A.P.

Significance of some biochemical tests in the dynamics of the rheumatic fever process. Vop.okh.mat. i det. 4 no.4:31-34 J1-Ag '59.

(MIRA 12:12)

1. Iz kliniki detskikh bolezney (nach. - deystvitel'nyy chlen AMN SSSR, zasluzhennyy deyatel' nauki prof. M.S. Maslov) Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(RHEUMATIC FEVER)

(MEDICAL TESTS)

SLEPTSOV, A.P.; YAMPOL'SKIY, A.L.; PASHININ, P.M.

C-reactive protein in rheumatism in children. *Pediatrics* 37
no.4:27-30 Ap '59. (MIRA 12:6)

1. Iz kliniki pediatrii (zav. - deystvitel'nyy chlen AMN SSSR
prof. M.S.Maslov) i kafedry mikrobiologii (zav. - prof. A.A.
Sinitskiy) Voenno-meditsinskoy ordena Lenina akademii imeni
S.M.Kirova.

(RHEUMATIC FEVER, blood in
C-reactive protein (Rus))
(BLOOD PROTEINS, in various dis.
rheum. fever (Rus))

SLEPTSOV, A.P., dotsent

Clinical significance of globulin fractions and C-reactive protein
in various pathological conditions in children. Sov. med. 24
no. 7:56-61 JI '60. (MIRA 13:8)

1. Iz kliniki detskikh bolezney (nach. - deystvitel'nyy chlen
AMN SSSR, zasluzhennyy deyatel' nauki prof. M.S. Maslov)
Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.
(PROTEINS) (GLOBULIN)

SLEPTSOV, A.P., dotsent; PASHININ, P.M.

Significance of the determination of C-reactive protein in the blood
in some childrens' diseases. Vop. okh. mat. i det. 6 no.5:49-54 My
'61. (MIRA 14:10)

1. Iz kliniki detskikh bolezney (nachal'nik - deystvitel'nyy chlen
AMN SSSR prof. M.S.Maslov) i kafedry mikrobiologii (nachal'nik -
prof. A.A.Sinitskiy) Voenno-meditsinskoy ordena Lenina akademii
imeni S.M.Kirova.
(BLOOD PROTEINS) (CHILDREN--DISEASES)

SLEPTSOV, A.P., dotsent; YAKOVLEVA, S.D.

Clinical significance of properdin in epidemic hepatitis in
children. *Pediatrics* no.2:50-55 '62. (RUS 15:6)

1. Iz kliniki detskikh bolezney (nach. - deystvitel'nyy chlen
AMN SSSR zaslushennyi deyatel' nauki prof. V.S. Marlov [deceased]),
kafedry mikrobiologii (nach. - prof. A.I. Sinititskiy) Vysshneye-
meditsinskoy ordena Lenina akademii imeni S.M. Kirova i kliniki
infektsionnykh zabolevaniy u detey (zav. - dotsent A.T. Kuchad-
cheva) Leningradskogo meditsinskogo pediatricheskogo instituta.
(PROPERDIN) (HEPATITIS, INFECTIONS)

BOVA I. A. M. P. S.; SHUTTOV, A. A.

Influence of solar activity on changes in the frequency of forms
of atmospheric circulation over a period of several years. Probl.
Arkt. i Antarkt. no.18:44-56 '64.

(MIRA 12:3)

124-58-6-6711

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 59 (USSR)

AUTHOR: Sleptsov, B. A.

TITLE: On the Effect of the Three-dimensional Variability of Currents
on the Drift of a Vessel (O vliyaniy prostranstvennoy izmenchi-
vosti techeniy na snos sudna)

PERIODICAL: Uch. zap. Leningr. vyssh. inzh. morsk. uch-shche, 1957,
Nr 6, pp 90-94

ABSTRACT: Bibliographic entry

1. Ships--Performance 2. Ocean currents--Properties

Card 1/1

MAKSIMOV, I.V., doktor geograf.nauk; SLEPTSOV, B. A., aspirant

Study of the eleven-year variations of the atmospheric pressure in Antarctica. Inform.biul. Sov.antark.eksp.no.43:5-10 '63. (MIRA 17:1)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche im. admirala Markova (for Maksimov). 2. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut (for Sleptsov).

ACCESSION NR: AT4041750

S/2561/64/000/016/0069/0074

AUTHOR: Sleptsov, B. A.

TITLE: Probable cause of the inconstancy of solar-atmospheric relationships

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Problemy* Arktiki i Antarktiki; sbornik statey, no. 16, 1964, 69-74

TOPIC TAGS: atmospheric circulation, troposphere, climatology, meteorology, solar activity

ABSTRACT: It has been proven that there is a relationship between the general circulation of the atmosphere and long-term changes in solar activity. However, the tropospheric reaction to solar activity is complex in character. The author attempts to explain the reasons why this relationship is not direct and unambiguous. The following wide range of data were analyzed: mean annual Wolf numbers, indices of the number of well-developed cyclones for three synoptic regions for the period 1900-1940, indices of Atlantic circulation for the same period, mean annual data on atmospheric pressure for the Azores High for the same period and Vangengeym's annual indices of westerly and meridional atmospheric circulation for

Card 1/2

SLEPTSOV, G.

Automatic timers. IUn.tekh. 6 no.12:4-7 D '61. (MIRA 14:12)
(Automatic timers)

L 16580-65 EWT(1)/EWT(m)/T/EWP(t)/EEC(b)-2/EWP(b) IJP(c)/ESD(df)/ESD(t)/
ESD(gs)/SSD/AFWL/ASD(a)-5 JD/GG/AT S/0070/64/009/006/0910/0915
ACCESSION NR: AP5000293

AUTHORS: Dem'yanov, E. A.; Kolesnikov, V. N.; Sleptsov, G. V.

TITLE: Investigation of chemical crystallization of germanium in
the open iodide process

SOURCE: Kristallografiya, v. 9, no. 6, 1964, 910-915

TOPIC TAGS: germanium, crystallisation, epitaxial growing, single
crystal, thin film

ABSTRACT: To study the epitaxial growths of germanium in the open
iodide process, using the reaction $2 \text{GeI}_2 (\text{gas}) \rightleftharpoons \text{Ge} (\text{solid}) + \text{GeI}_4$
(gas) + Q (calories) the authors investigated the crystallization
of germanium in accordance with this reaction in a vessel consti-
tuting a quartz tube 1 meter long and 18 mm inside diameter and in
a specially constructed oven with programmed heating. The carrier
was a laminar stream of purified hydrogen. Pure iodine was distilled

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L 16580-65
 ACCESSION NR: AP5000293

in the hydrogen stream at 70C. The germanium source was finely crushed germanium with specific resistivity ohm-cm. The substrates were single-crystal germanium plates (n type, resistivity 40 ohms-cm), approximately 200 microns thick and with area 0.3 cm². The films produced had equilibrium growth figures (cubic) on the surface, thus indicating that the films are epitaxial, single-crystal, and of high degree of structural perfection. The results show that these figures can be grown in the open iodide process over a wide temperature interval. In the temperature interval 300--400C, the epitaxy of germanium in the iodide process is the rule rather than the exception, with the growth of the film noticeably affected by the purity of the reaction surface of the substrate (no film was grown on contaminated areas). The chemical crystallization method creates growth conditions that are close to equilibrium and yields semiconductor layers with a high degree of structural perfection. In view of the small degrees of supersaturation, it is assumed that the growth of the films in this process is based on a dislocation mechanism. X-ray

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L 16580-65

ACCESSION NR: AP5000293

3

structural and metallographic tests were made, and also measurements of the microhardness of the resultant films. "The authors thank L. A. Zubritskiy and V. P. Kornienko for continuous help and attention, and also A. G. Klimenko for participating in the experiments during the initial stage of the work." Orig. art. has: 3 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 07Feb64

ENCL: 00

SUB CODE: SS.

NR REF SOV: 007

OTHER: 005

Card 3/3

SLEPTSOV, I.

Hand mower. Trakt.i sel'khoz mash. no.1:47 Ja '60.
(MIRA 13:4)

(Mowing machines)

L 40097-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6019664 (N) SOURCE CODE: UR/0073/66/032/006/0642/0645 1/2

AUTHOR: Kolesnikov, V. N.; Dem'yanov, E. A.; Sleptsov, G. V.; Korniyenko, V. P. 1/2

ORG: Kharkov State University im. A. M. Gor'kiy (Khar'kovskiy gosudarstvennyy universitet)

TITLE: Study of the thermochemical etching of germanium single crystals with gaseous iodine 21 1/2

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 6, 1966, 642-645

TOPIC TAGS: germanium single crystal, iodine, etched crystal, THERMOCHEMISTRY

ABSTRACT: The article considers the effect of the temperature and pressure of gaseous iodine on the reaction between the latter and single-crystal germanium, and also the mechanism of the thermochemical etching of surface (III) of germanium. It is shown that germanium tetraiodide is formed at 200-550°, and germanium diiodide at 300-800°. The region of maximum yield of diiodide and tetraiodide is ~400°. At T > 600°, the yield of diiodide increases with rising temperature. A mechanism including the successive stages of chemisorption of iodine, formation of the iodide, and desorption is proposed. A metallographic study of the surface after etching showed that true etch figures (flat and depressed triangles) are formed on surface (III) over a definite range of etching rates at 500-600° and iodine pressures of 2-4 mm in the iodine zone. Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 16Jul64/ ORIG REF: 003/ OTH REF: 008/

UDC: 546.289:548.572

Card 1/1

YEGOROV, T.A.; YEFIMOV, N.N.; Krasil'nikov, D.D.; KORYAKIN, V.D.;
MAKSIMOV, S.V.; SLEPTSOV, I.Ye.

Construction of large scintillation counters with a single
photoelectric multiplier. Izv. AN SSSR. Ser. fiz. 29 no.9:
1783-1790 S '65. (MIRA 18:9)

L 4428-66 EWT(1)/EWT(m)/T/ENP(t)/ENP(b)/EED(b)-3 IJP(c) JD
 ACCESSION NR: AP5018847 UR/0368/65/003/001/0065/0071
 535,343
 AUTHORS: Volod'ko, L. V.; Komyak, A. I.; Sleptsov, L. Ye.
 TITLE: Infrared absorption spectrum of single-crystal sodium uranyl acetate
 SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 1, 1965, 65-71
 TOPIC TAGS: sodium compound, uranium compound, ir spectrum, absorption spectrum, crystal symmetry, acetate
 ABSTRACT: The investigated crystals were grown from an aqueous solution by free evaporation. Plane parallel plates measuring 6 x 9 mm and 0.15, 0.075, and 0.032 mm thick were cut from the produced single crystals. The spectra were recorded with an infrared spectrometer (UR-10) in the 400 -- 5000 cm^{-1} range at room temperature. The frequencies of the maxima of the absorption bands are listed and compared with investigations on powdered sodium uranyl acetate (L. H. Jones, J. Chem. Phys. v. 23, 2105, 1955). Although the agreement between
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L 4428-66

ACCESSION NR: AP5018847

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the values are good, the present results show some singularities in the absorption spectrum of sodium uranyl acetate which were not noted by Jones. These differences are attributed to singularities in the structure of the sodium uranyl acetate crystal and are manifest primarily in a splitting of many clearly pronounced absorption bands into three components. This splitting is explained by means of a group-theoretical analysis. The amount of the splitting is in agreement with that observed earlier in the luminescence spectrum of crystalline sodium uranyl acetate at liquid-hydrogen temperature. The internal vibrations of the complex uranyl triacetate ion in the crystal are shown to split into several components, which are assigned to various symmetry groups. 'The authors thank Academician of AN BSSR A. N. Sevchenko for continuous interest in this research.' Orig. art. has: 3 figures, 2 formulas, and 3 tables.

ASSOCIATION: None

SUBMITTED: 15Mar65

NR REF SOV: 002

ENCL: 00

SUB CODE: OP, 55

OTHER: 005

Card 2/2

L 65236-65 EWT(1) IJP(c)

ACCESSION NR: AP5021489

UR/0368/65/003/002/0134/0141

535.343

AUTHOR: Volod'ko, L. V.; Komyak, A. I.; Sleptsov, L. Ye.

TITLE: Luminescence spectrum and polarization of crystalline sodium uranyl acetate

SOURCE: Zhurnal prikladnoy spektroskopii. v. 3, no. 2, 1965, 134-141

TOPIC TAGS: luminescence spectrum, single crystal, crystal optic property

ABSTRACT: The authors studied the luminescence spectrum of sodium uranyl acetate single crystals at 77°K. The crystals were grown from an aqueous solution of the salt by free evaporation at room temperature. Specimens with well developed natural faces were selected for the experiments. For studying the luminescence spectra, the crystals were placed in a quartz Dewar flask with transparent walls, filled with liquid nitrogen. It was found that slow cooling of the crystal to -196°C causes no additional imperfections in the structure (cracks, erosion of the surface layer, etc.) which would produce any noticeable changes in the spectrum or polarization of the lines. A DFS-12 double diffraction monochromator with a linear dispersion of 5.2 Å/mm was used for studying the luminescence spectra. The re-

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L 65236-65

ACCESSION NR: AP5021489

ceiver was an FEU-27 photomultiplier cooled by dry ice to -70°C . The light flux was modulated by a frequency of 21 cps with the aid of an electromagnetic vibration light chopper mounted in front of the input slot of the monochromator. The photomultiplier signals were amplified by a U-2-6 amplifier with a passband of 1 cps and then fed to an SD-1 synchrophase detector with a time constant of 2-4 sec. The spectra were recorded on an EPP-09 continuously recording potentiometer. The luminescence in the specimen was excited by emission with a wavelength of 365 mμ from an SVDSH-1000 mercury lamp, passed through a UFS-2 filter and a blue vitriol solution. The luminescence spectrum (see fig. 1 of the Enclosure) is divided into six bands with an average distance of 850 cm^{-1} between homologous lines in neighboring bands. The principle lines (21131, 20278, 19426, 18575, 17726 and 16886 cm^{-1}) are circularly polarized. The degree of polarization is considerably less than 1 (21, 25, 29, 33, 39 and 37% respectively), and increases noticeably toward the red end of the spectrum. The remaining lines of the spectrum are unpolarized. The intensity distribution, frequencies and polarization of the lines are independent of whether the light of various wavelengths which excites the luminescence is linearly or circularly polarized. A DMR-4 double quartz monochromator and a DKSSH-1000 xenon lamp were used for excitation of luminescence on various wavelengths. All lines observed at 77°K are attributed to internal vibrations of the

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ACCESSION NR: AP5021489

complex $\text{UO}_2(\text{CH}_3\text{COO})_3^-$ ion. It is assumed that the lines could not be due to external vibrations of the crystal lattice, since these should have considerably lower frequencies because of the large masses of the vibrating groups and the relatively small forces of interaction between molecules. It is suggested that the luminescence activity of these crystals is due to complex uranyl triacetate ions which belong to the point group of C_3 symmetry. "In conclusion, the authors are sincerely grateful to Academician AN BSSR A. N. Sevchenko for constant interest in this work." Orig. art. has: 2 figures, 1 table. 3

ASSOCIATION: none

SUBMITTED: 25Mar65

ENCL: 01

SUB CODE: OP

NO REF SOV: 012

OTHER: 003

Card 3/4

L 65236-65

ACCESSION NR: AP5021489

ENCLOSURE: 01

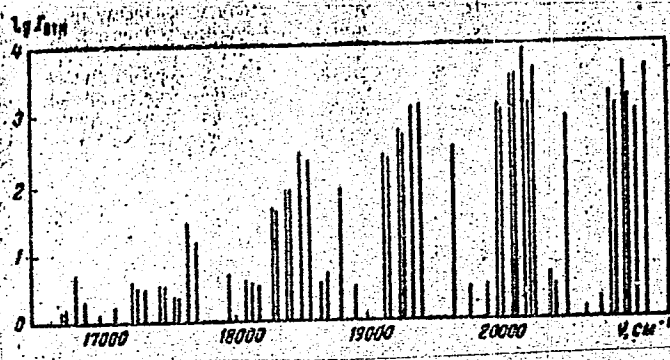


Fig. 1. Luminescence spectrum of a sodium uranyl acetate single crystal at 77°K.

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L 4409-66 EWT(1)/EWT(m)/FCC/T/EWA(h) IJP(c) CW
 ACC NM: AP5024663 SOURCE CODE: UR/0048/65/029/009/1788/1790

AUTHOR: Yegorov, T. A.; Yefimov, M. N.; Krasil'nikov, D. D.; Koryakin, V. D.;
Maksimov, S. V.; Sleptsov, I. Ye.

ORG: none

TITLE: Design problems of large scintillation counters with a single photomultiplier

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1788-1790

TOPIC TAGS: scintillation counter, cosmic ray counter, nuclear scintillation counter

ABSTRACT: ¹² Scintillator-photomultiplier mutual arrangement and reflector shape are optimized to decrease the influence of particle trajectory location upon photomultiplier output and to improve reliability of registration of low-density cosmic ray particles. In the experimental arrangement (Fig. 1), a 50 x 50 x 5 cm plastic scintillator occupied only one quadrant of the 100 x 100 cm reflecting container base. A single FEU-44 photomultiplier was used with its axis along the axis of the container. A diffusely reflecting Wattman paper (a high-grade Bristol drafting board) was used as the reflecting surface covering. The location of particle trajectories was determined by a telescope system using SI-5G counters. The area of the scintillator was divided into 16 equal areas 12 x 12 cm, and selections were made of vertical trajectory particle passages within a solid angle of .01 sterad. Arrangement

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L 4409-66

ACC NR: AP5024663

IV, in Fig. 1, was found to be best, giving only about 20% attenuation for signals

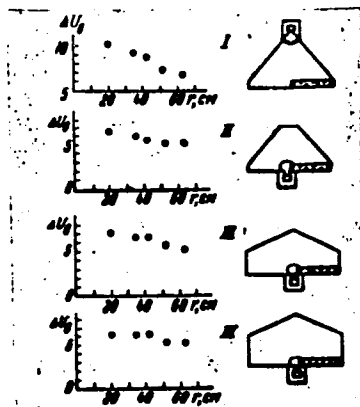


Fig. 1. Dependence of probable pulse height on trajectory of a single particle through the scintillator for various shapes of the reflecting container

arriving from scintillator edges. This should permit registration of a single cosmic ray particle with high reliability. Orig. art. has: 2 figures. [18]

SUB CODE: 1/ SUM DATE: none/ ORIG REF: 001/ OTH REF: 000/ ATD PAGES 4/25
Cor 2/2

VOLODKO, L.V.; KOMYAK, A.I.; SLEPTSOV, L.Ye.

Infrared absorption spectrum of sodium uranyl acetate single
crystals. Zhur. prikl. spekt. 3 no.1:65-71 J1 '65. (MIRA 18:9)

VOLOD'KO, L.V.; KOMYAK, A.I.; SLEPTSOV, L.Ye.

Polarization and luminescence spectrum of crystalline sodium
uranyl acetate. Zhur. prikl. spekt. 3 no. 2:134-141 Ag. '65.
(MIRA 18:12)

1. Submitted March 25, 1965.

SLEPTSOV, M.

Harvesting

Organization of grain harvest. Kolkh. proiz. 12, no. 5, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

SLAVOV, N. N.

"A Decline of Atavism Among Seals (*Erignathus Barbatas*)," Dok. AN, 27, No. 6, 1940.
Lab. of Compar. Morphology; State Univ., Moscow. c1940-.

СЛАПОВ, А. И.

"Development Of The Osteocranium Of ^{Stoetzel whale}Odontoceti During Ontogenesis And Philogenesis,"
Dok. AN, 28, No. 4, 1940. Lab. Evolutionary Morphology: Moscow State Univ., c1940-.

SLIPTSOV, N.M.

Biology of the Ussurian harvest mouse (*Micromys minutus ussuricus*
Barr.-Ham.) [with summary in English]. Mat. k pozn. fauny i flory
SSSR. Otd. zool. no.8:69-100 '47. (MIRA 11:7)
(Soviet Far East--Field mice)

SLEPTSOV, K. K.

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